



# Computer Engineering Program

## Senior “Capstone” Design Project Presentations (ECE 189A/B)

**Date:** Thursday, June 5, 2003  
**Time:** 2:00pm to 4:30pm  
**Location:** Engineering II, Pavilion

Senior Computer Engineering students are required to take a two quarter sequence (either CMPSC 189A/B or ECE 189A/B) as their Computer Engineering Senior "Capstone" Design Project. The Capstone Project brings together previous knowledge learned, builds confidence, and teaches team-development skills.

### Today's Presentations:

**Auto-Pilot:** ..... Brandon Barnes, Chris Erro, Ed Heyward, Guy Morgenshtern  
Takes over control of an R/C model plane and flies it around a pre-planned trajectory using GPS.

**IR Badge:** .....Victor Chang, Sunil Kaki, Yu Hiroki Kato, Daniel Salce  
Uses infrared LEDs on a small electronic badge to automatically exchange information and match and display interests of the wearers. Displays use visible LEDs and also incorporate sound.

**MP3 Player:** .....David Ansari, Greg Hoover, Mike Hu, Tony Mora, Alex Sanks  
Portable MP3 player with small LCD screen and internal disk.

**Paging Service:**..... David Bai, Arthur Blough, Rahul Deb, Willis Hayes, Jeff Li, Peter Schroeter  
Wireless pager that can receive messages and display them on an integrated LCD screen.

**“Sentry” Intrusion Detection Robot:** .....Hung Lam, Matt Weathersby, Kyle Wilson  
Autonomous surveillance robot that can roam about within a large space to detect motion and heat (IR) signatures.

Class website: <http://vulcan.ece.ucsb.edu/ece189>